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Z87 OC Formula

Overclocking? Dead Giveaway!

Want this? SIGN-UP

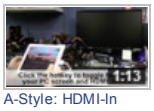
Translate

- OC Formula Power Kit
  - 12 Power Phase Design
  - Digi Power
  - Dual-Stack MOSFET (DSM)
  - Multiple Filter Cap (MFC) (Filters different noises by 3 different capacitors: DIP solid cap, POSCAP and MLCC)
  - Premium Alloy Choke (Reduces 70% core loss compared to iron powder choke)
- OC Formula Connector Kit
  - Hi-Density Power Connector (8 pin)
  - 15µ Gold Finger (CPU sockets, memory sockets and PCIE x16 slots)
  - Distortion-Free Slot
- OC Formula Cooling Kit
  - Twin-Power Cooling (Combine active air cooling and water cooling)
  - 8 Layer PCB
  - 4 x 2oz Copper
  - GELID Solutions GC-Extreme Thermal Compound
- OC Formula Monitor Kit
  - Status OLED
  - Multi Thermal Sensor
- A-Style : Home Cloud, Conformal Coating, Purity Sound™, HDMI-In
- Supports NickShih's OC Profile, Formula Drive, FAN-Tastic Tuning, USB Key
- Supports Fine-Tuning V-Controller, Interactive UEFI, Timing Configurator
- Supports Rapid OC, PCIe ON/OFF, V-Probe
- Free Bundle : 1 x Front USB 3.0 Panel with 2.5" HDD/SSD Rack, 10 x OC Stands

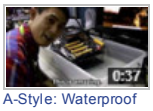
Windows 8 Ready

This model may not be sold worldwide. Please contact your local dealer for the availability of this model in your region.

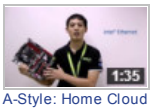
Youtube Live Demo



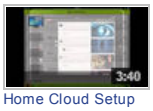
A-Style: HDMI-In introduction



A-Style: Waterproof by Conformal Coating



A-Style: Home Cloud



Home Cloud Setup Tutorial

Awards

2013/8/13 **KitGURU** - Must Have
Well-priced, feature-heavy, high-performance motherboard that has excellent overclocking potential. ASRock Z87 OC Formula has been awarded with the MUST HAVE award from KitGURU!

Product Specifications

General	
A-Style	- Home Cloud - Conformal Coating - Purity Sound™ - HDMI-In
OC Formula Kit	**OC Formula Power Kit** - 12 Power Phase Design - Digi Power - Dual-Stack MOSFET (DSM) - Multiple Filter Cap (MFC) (Filters different noises by 3 different capacitors: DIP solid cap, POSCAP and MLCC) - Premium Alloy Choke (Reduces 70% core loss compared to iron powder choke) **OC Formula Connector Kit** - Hi-Density Power Connector (8 pin) - 15µ Gold Finger (CPU sockets, memory sockets and PCIE x16 slots) - Distortion-Free Slot **OC Formula Cooling Kit** - Twin-Power Cooling (Combine active air cooling and water cooling)

	- 8 Layer PCB - 4 x 2oz copper - GELID Solutions GC-Extreme Thermal Compound **OC Formula Monitor Kit** - Status OLED - Multi Thermal Sensor
CPU	- Supports 4th Generation Intel® Core™ i7 / i5 / i3 / Xeon® / Pentium® / Celeron® in LGA1150 Package - Supports Intel® Turbo Boost 2.0 Technology - Supports Intel® K-Series unlocked CPU - Supports ASRock BCLK Full-range Overclocking
Chipset	- Intel® Z87
Memory	- Dual Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 3000+(OC)/2933(OC)/2800(OC)/2400(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 32GB* - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2 - Distortion-Free Slot *Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 32-bit OS. For Windows® 64-bit OS with 64-bit CPU, there is no such limitation.
BIOS	- 2 x 64Mb AMI UEFI Legal BIOS with Multilingual GUI support (1 x Main BIOS and 1 x Backup BIOS) - Supports Secure Backup UEFI Technology - ACPI 1.1 Compliance Wake Up Events - SMBIOS 2.3.1 Support - CPU, DRAM, PCH 1.05V, PCH 1.5V Voltage Multi-adjustment
Audio, Video and Networking	
Graphics	- Supports Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 4400/4600 - Pixel Shader 5.0, DirectX 11.1 - Max. shared memory 1792MB - Supports HDMI Technology with max. resolution up to 4K x 2K (4096x2304) @ 24Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI (Compliant HDMI monitor is required) - Supports HDCP function with HDMI port - Supports Full HD 1080p Blu-ray (BD) playback with HDMI port *Intel® HD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. **Due to chipset limitation, the Blu-ray playback of Intel® HD Graphics is only supported under Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit. ***Intel® InTru™ 3D is only supported under Windows® 8 / 8 64-bit / 7 / 7 64-bit.
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC1150 Audio Codec) - Premium Blu-ray audio support - Supports Purity Sound™ - 115dB SNR DAC with differential amplifier - TI NE5532 Premium Headset Amplifier (Supports up to 600 ohm headsets) - Direct Drive Technology - EMI shielding cover - PCB isolate shielding - Supports DTS Connect
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Intel® I217V - Supports Intel® Remote Wake Technology - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Expansion / Connectivity	
Slots	- 3 x PCI Express 3.0 x16 slots (PCIE1/PCIE2/PCIE4: single at x16 (PCIE1); dual at x8 (PCIE1) / x8 (PCIE2); triple at x8 (PCIE1) / x4 (PCIE2) / x4 (PCIE4)) - 1 x PCI Express 2.0 x16 slot (PCIE6: x4 mode) - 2 x PCI Express 2.0 x1 slots - 1 x mini-PCI Express slot - PLX8605 embedded - Supports AMD Quad CrossFireX™, 4-Way CrossFireX™, 3-Way CrossFireX™ and CrossFireX™ - Supports NVIDIA® Quad SLI™ and SLI™ *mini-PCI Express slot is shared with PCIE5 slot.
Storage	- 6 x SATA3 6.0 Gb/s connectors by Intel® Z87, support RAID (RAID 0, RAID 1, RAID 5, RAID 10, Intel® Rapid Storage Technology 12 and Intel® Smart Response Technology), NCQ, AHCI and Hot Plug functions - 4 x SATA3 6.0 Gb/s connectors by ASMedia ASM1061, support NCQ, AHCI and Hot Plug functions
	- 1 x COM Port header - 1 x Power LED header - 2 x CPU Fan connectors (1 x 4-pin, 1 x 3-pin) - 4 x Chassis Fan connectors (1 x 4-pin, 3 x 3-pin) - 1 x Power Fan connector (3-pin) - 1 x MOS Fan connector (3-pin)

Connector	- 1 x 24 pin ATX power connector - 2 x 8 pin 12V power connectors (Hi-Density Power Connector) - 1 x SLI/XFire power connector - 1 x Front panel audio connector - 2 x USB 2.0 headers (support 4 USB 2.0 ports) - 1 x Vertical Type A USB 3.0 - 2 x USB 3.0 headers (support 4 USB 3.0 ports) (ASMedia Hub) - 1 x Power Switch with LED - 1 x Reset Switch with LED - 1 x Clear CMOS Switch - V-Probe™: 2 x 7-set of onboard voltage measurement points laid - Rapid OC Button: +/- buttons to adjust OC frequency - 1 x PCIe ON/OFF Switch - 1 x Post Status Checker (PSC) - 1 x Slow Mode Switch - 1 x LN2 Mode Switch - 1 x BIOS Selection Switch
Rear Panel I/O	I/O Panel - 1 x PS/2 Mouse/Keyboard Port - 1 x HDMI-Out Port - 1 x HDMI-In Port - 1 x Optical SPDIF Out Port - 2 x USB 2.0 Ports - 4 x USB 3.0 Ports (Intel® Z87) - 4 x USB 3.0 Ports (Etron EJ188H) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - 1 x Clear CMOS Button - HD Audio Jack: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone *USB3_10_11 is shared with PCIE6. If the PCIE6 slot is occupied, USB3_10_11 shifts to USB 2.0.
Other Features / Miscellaneous	

Unique Feature	- ASRock Formula Drive
	- ASRock Instant Flash
	- ASRock APP Charger
	- ASRock XFast USB
	- ASRock XFast LAN
	- ASRock XFast RAM
	- ASRock Crashless BIOS
	- ASRock OMG (Online Management Guard)
	- ASRock Internet Flash
	- ASRock UEFI System Browser
	- ASRock UEFI Tech Service
	- ASRock Dehumidifier
	- ASRock Easy RAID Installer
	- ASRock Easy Driver Installer
	- ASRock Interactive UEFI
	- ASRock Fast Boot
	- ASRock Restart to UEFI
	- NickShih's OC Profile
	- Fine-Tuning V-Controller
	- Timing Configurator
	- ASRock USB Key
	- ASRock FAN-Tastic Tuning
	- Hybrid Booster:
	  - CPU Frequency Stepless Control
	  - ASRock U-COP
	  - Boot Failure Guard (B.F.G.)
	- Good Night LED

Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, Google Chrome Browser and Toolbar, Start8 (30 days trial), MeshCentral, Splashtop Streamer
Accessories	- 1 x ASRock Flexible SLI™ Bridge Connector Cable - Quick Installation Guide, Support CD, I/O Shield - 10 x SATA Data Cables - 2 x SATA 1 to 1 Power Cables - 1 x Front USB 3.0 Panel with 2.5" HDD/SSD Rack - 4 x HDD Screws - 6 x Chassis Screws - 1 x Rear USB 3.0 Bracket - 10 x OC Stands - GELID Solutions GC-Extreme Thermal Compound - 1 x WiFi Module Screw
Hardware Monitor	- CPU/Chassis/Power/MOS Temperature Sensing - CPU/Chassis/Power/MOS Fan Tachometer - CPU/Chassis/MOS Quiet Fan (Allows Chassis Fan Speed Auto-Adjust by CPU Temperature) - CPU/Chassis/MOS Fan Multi-Speed Control - Multi Thermal Sensor - Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore - 1 x Status OLED
Form Factor	- EATX Form Factor - Premium Gold Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
OS	- Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit compliant
Certifications	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required)

Caution:
Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS or using the third-party

overclocking tools. Overclocking may affect your system stability, or even cause damage to the components and devices of your system. It should be done at your own risk and expense. We are not responsible for possible damage caused by overclocking.

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The picture of the user interface above is a sample for reference. The actual user interface may vary due to updated software versions.